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**Bencsits**

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- [54] **INSECTICIDAL PRODUCT** 5,334,585 8/1994 Derian et al. .... 514/74
- [75] **Inventor:** **Franz Bencsits**, Wehrenbachhalde 54,  
8053 Zürich, Switzerland
- [73] **Assignees:** **Franz Bencsits; Perycut-Chemie AG**,  
both of Zurich, Switzerland
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[56] **References Cited**

**U.S. PATENT DOCUMENTS**

2,375,250	5/1945	Riemenschneider et al. .	
2,383,815	8/1945	Riemenschneider et al. .	
2,485,640	10/1949	Vahlteich et al. ....	99/163
3,560,613	2/1971	Miskus et al. .	
4,668,666	5/1987	Allan et al. ....	514/63
4,674,445	6/1987	Cannelongo ..... 119/156	
4,683,132	7/1987	Ronning et al. ....	424/409
4,923,745	5/1990	Wolfert et al. ....	428/35.4
5,102,662	4/1992	Gallagher ..... 424/409	

**FOREIGN PATENT DOCUMENTS**

625683	7/1949	United Kingdom .
2 002 635	2/1979	United Kingdom .
WO84/00095	1/1984	WIPO .
WO85/03197	8/1985	WIPO .

**OTHER PUBLICATIONS**

Food Science and Technology Abstracts (FSTA) 85:973; Abstracting, Kanematsu et al., "Studies on the improvement of antioxidant effect of tocopherols . . ." Yukagaku, vol. 32 (12), 1983, pp. 731-734.  
 J. Agri. Food Chem., vol. 30, No. 2 (1972) pp. 313-315, "Stabilization of Thin Films of Pyrethrins and Allethrin", Miskus et al.  
 JP, A, 59 065 001, Patent Abstracts of Japan, 8(162):(C-236) [1599] 1984.  
 JP, A, 60 064,902, Patent Abstracts of Japan, 9(196):(C-297) [1919] 1985.  
 JP, A, 62 283 901, Patent Abstracts of Japan, 12(176):(C-498) [3023] 1988.

*Primary Examiner*—Neil S. Levy  
*Attorney, Agent, or Firm*—Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

[57] **ABSTRACT**

The invention relates to an insecticidal product which comprises a vehicle impregnated with an insecticidal composition. The insecticidal composition contains at least one pyrethroid, at least one UV absorbing agent and at least one antioxidant from the group consisting of tocopherol derivatives, ascorbyl palmitate and citric acid esters and is preferably applied onto a polyethylene sheet as an emulsion. The product is used as a "carpet" for controlling flying and crawling insects such as flies and cockroaches.

**5 Claims, No Drawings**